

■ Features:

- Can be used for high frequency bands up to GHz and stable inductance at high frequency
- The high self resonant frequency realizes high Q value
- Low DC resistance design is ideal for low loss, high output and low power consumption

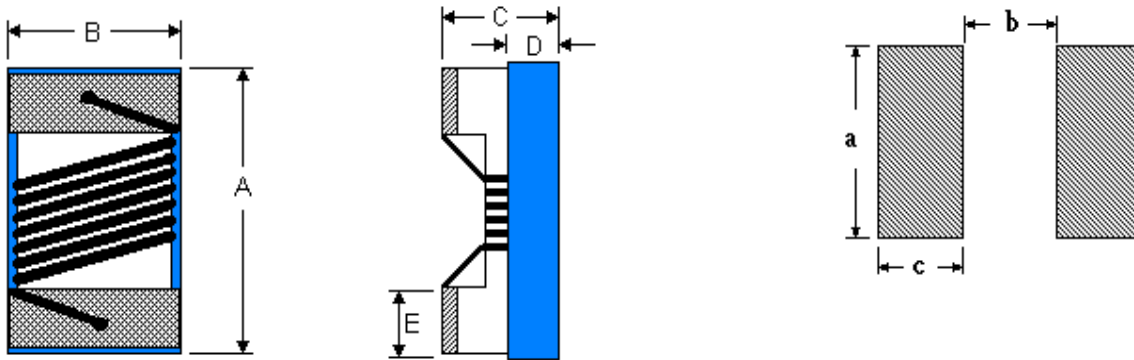
■ Applications:

- For high-frequency applications including mobile phones, portable phones, such as PA, ANT, VCO, SAW, etc
- Mobile phones such as GSM, CDMA, PDA, etc
- Bluetooth, W-LAN

■ Parts code:

NLC 0402	10N	J
Type	Inductance code	Tolerance

■ Recommended Land Pattern:



Dimensions in mm

TYPE	A	B	C	D	E	a	b	c
NLC 0402	1.27 max	0.76 max	0.61 max	0.15 Ref	0.23	0.66	0.46	0.50
NLC 0603	1.80 max	1.20 max	1.02 max	0.45 Ref	0.33	1.02	0.64	0.64
NLC 0805	2.40 max	1.65 max	1.45 max	0.65 Ref	0.44	1.78	0.76	1.02
NLC 1008	2.90 max	2.54 max	2.03 max	1.30 Ref	0.45	2.54	1.27	1.02

■ Package:

TYPE	NLC 0402	NLC 0603	NLC 0805	NLC 1008
Q'TY / Reel	4000	3000	2000	2000

■ Operating temperature range from -40°C to 125°C.

Storage Temperature: -10°C to +40°C, 70% RH max.

■ Specifications

Inductance			NLC 1008			
			Q / MHz	SRF	DCR	IDC
Code	nH / MHz	Tolerance	(Min)	(GHz) Min	(Ω) Max	(mA) Max
3N9	3.9 / 50	B,S	60 / 1500	5.00	0.08	1000
10N	10 / 50	G,J,K	50 / 500	4.10	0.08	1000
15N	15 / 50	G,J,K	50 / 500	2.50	0.10	1000
18N	18 / 50	G,J,K	50 / 350	2.40	0.10	1000
22N	22 / 50	G,J,K	55 / 350	2.40	0.13	1000
24N	24 / 50	G,J,K	55 / 350	1.90	0.13	1000
27N	27 / 50	G,J,K	55 / 350	1.60	0.13	1000
33N	33 / 50	G,J,K	60 / 350	1.60	0.15	1000
39N	39 / 50	G,J,K	60 / 350	1.50	0.15	1000
47N	47 / 50	G,J,K	65 / 350	1.50	0.18	1000
56N	56 / 50	G,J,K	65 / 350	1.30	0.21	1000
68N	68 / 50	G,J,K	65 / 350	1.30	0.21	1000
75N	75 / 50	G,J,K	60 / 350	1.10	0.24	1000
82N	82 / 50	G,J,K	60 / 350	1.00	0.24	1000
R10	100 / 25	G,J,K	60 / 350	1.00	0.37	650
R12	120 / 25	G,J,K	60 / 350	0.95	0.42	600
R15	150 / 25	G,J,K	45 / 100	0.85	0.46	580
R18	180 / 25	G,J,K	45 / 100	0.75	0.55	620
R22	220 / 25	G,J,K	45 / 100	0.70	0.58	500
R24	240 / 25	G,J,K	45 / 100	0.65	0.68	500
R27	270 / 25	G,J,K	45 / 100	0.60	0.73	500
R30	300 / 25	G,J,K	45 / 100	0.585	0.78	450
R33	330 / 25	G,J,K	45 / 100	0.57	0.82	450
R36	360 / 25	G,J,K	45 / 100	0.53	0.88	470
R39	390 / 25	G,J,K	45 / 100	0.50	0.92	470
R47	470 / 25	G,J,K	45 / 100	0.45	1.00	470
R56	560 / 25	G,J,K	45 / 100	0.415	1.14	400
R62	620 / 25	G,J,K	45 / 100	0.375	1.20	300
R68	680 / 25	G,J,K	45 / 100	0.375	1.24	400
R75	750 / 25	G,J,K	45 / 100	0.36	1.54	360
R82	820 / 25	G,J,K	45 / 100	0.35	1.61	400
R91	910 / 25	G,J,K	35 / 100	0.32	1.68	380
1R0	1000 / 25	G,J,K	35 / 100	0.29	1.75	370
1R2	1200 / 7.9	G,J,K	30 / 100	0.25	2.00	340
1R5	1500 / 7.9	G,J,K	28 / 100	0.20	2.23	330

■ Notes: Tolerance: B ($\pm 0.2nH$), S ($\pm 0.3nH$), G ($\pm 2\%$), J ($\pm 5\%$), K ($\pm 10\%$)